

XIAFEI DENG

EDUCATION	University of California, Los Angeles Certificate Program in Data Science Courses: Java Programming; C++ Programming; Big Data Management; Machine Learning; Data Science; Data Analysis and Visualization	Expected: Sep 2021 GPA: 3.7
	University College London Master of Art in Music Education Lanzhou University Bachelor of Art in Music Performance	
SKILLS	Programming Language: Java, C++, Python, SQL, JavaScript, HTML, R Professional Knowledge: Algorithms and data structures, Data Analysis and visualization, Machine Learning, Jenkins, Spring Boot, Django, Logic Pro X, Audio Engineering	
PROJECTS	E-Commerce Platform (Spring Boot, Angular) <ul style="list-style-type: none">Built a real-time e-Commerce application (Online Flower Store) for local sellers which supports inventory management and accepting online orders.Shopper can login, search items, view item details, add/remove items to/from shopping cart, admins can check and manage their inventory, allocate sale teams and view their revenue.Designed and Implement REST APIs to make back-end (Spring Boot) and front-end (Angular) to communicate.Implemented check out layout and validation (email and pattern) using Angular's reactive form and validation features, implement real-time inventory management and order system using MySQL. Java Continuous Integration/Continuous Deployment (Jenkins, Tomcat) <ul style="list-style-type: none">Created and set up continue testing and deployment pipeline using Tomcat and Jenkins on Docker.Set up Jenkins job and Tomcat server on Docker, using Maven Integration and Publish over SSH plugins to let Jenkins connect to Tomcat.Running Jenkins server on Docker, which consistently monitors git repository and will automatically trigger build, testing and deployment upon code change every 30 minutes. Personal Portfolio (Django) <ul style="list-style-type: none">Design and built full-stack a web portfolio using Python and Django. Portfolio includes hierarchical pages like home, music and blog.Implemented web UI using bootstrap and HTML. Implemented image and music storage using Sqlites3. Digital Piano (Node.js, MongoDB) <ul style="list-style-type: none">Designed and implemented a full-stack browser instrument that simulates a piano that can be played through web UI or keyboard, also supports save and replay recordings.Implemented a web UI using HTML, CSS and JavaScript, wrote web server logic using Node.js.Implemented save and replay recording functionality to/from MongoDB using mongoose, with auto-skip support for recording start and end. Instagram Clone (React.js, Firebase) <ul style="list-style-type: none">Built a multi-user social media platform using React and JavaScript.Implemented web UI which supports user login, personal page, viewing comments and post.Implemented a sign-in auth service based on Firebase and using Vercel to deploy web services. San Francisco Bay Area House Price Prediction (Python) <ul style="list-style-type: none">Trained machine learning models using Zillow housing data to predict San Francisco Bay Area house price for next year.Trained models using Multiple Linear Regression, Ridge Regression and Random Forest algorithm, validated their performance using 10-fold cross validation.Performed model feature correlation analysis and visualization using D3.js.	

EXPERIENCE **Independent Musician & Music Engineer**
University College London MET Conference Assistant